Aysha **Rahman**

ayshafrahman.github.io/portfolio_draft | ayshafrahman | ayshaferdousirahman

Education

Agnes Scott College *Decatur, GA*

B.S. in Astrophysics, minor in Mathematics *Aug 2015 - May 2019*

- Activities and Societies: Commuter Student Organization (Treasurer), Society of Physics Students (Member), Muslim Student Association (Member)
- Relevant Courses: PHY 231: Intro to Data Science, PHY 240: Electronics, CSCI 1301: Intro to Computer Science with Java

Experience

Agnes Scott College *Decatur, GA*

Electronics Lab Technician *Sep 2019 - Current*

- Tested, repaired, and organized circuit components.
- Repaired, created documentation for, and optimized settings on 3D printer for student use.
- Designed and delivered a 3D printing workshop for students and professors.
- Supervised student use of 3D printer.

Energy Consulting Group *Atlanta, GA*

Intern *Sep 2018 - Feb 2019*

- Compiled data and created presentations for various internal and client needs regarding IT systems and data center locations using Microsoft PowerPoint and Excel.
- Researched and created reports on current energy storage technologies.

Tutoring *Atlanta, GA*

Private Tutor in Algebra-Based Physics *Sep 2018 - Dec 2018*

- Tutored high school students in accelerated algebra-based physics. Taught problem-solving strategies for basic introductory level physics.
- Worked with students to break down concepts mathematically and conceptually, such as vectors, forces, energy, and electricity.

Commuter Student Organization *Decatur, GA*

Treasurer *Aug 2016 - May 2019*

- Planned events and managed commuter-exclusive spaces, commuter student resources, and organization finances for Agnes Scott College's Commuter Student Organization (CSO) using Microsoft Excel.
- Hosted events such as a refugee speaker panel, a panel on gentrification in the Atlanta area, a talk on the history of Muslims in America, and movie screenings.
- Wrote budget proposals and raised organization funding from $250 to $2,000.

Projects

Modeling Attenuation of Solar Energy Through a Tree *Decatur, GA*

Agnes Scott College *Feb 2018 - May 2018*

- Worked with advisor Dr. Amy Lovell to create a Monte Carlo simulation in C to assess the attenuation of light reaching a rooftop solar panel partially blocked by a dormant tree.
- Used VirtualBox to write and run simulations on a Linux virtual machine.
- Presented research at college's SpARC (Spring Annual Research Conference).

Observations of the 18 cm OH Lines of 23 Comets *Decatur, GA*

Agnes Scott College *Sep 2017 - Dec 2017*

- Conducted research on comets with Dr. Amy Lovell. Ran models for and mapped comets based on observations of OH lines from the Green Bank Telescope.
- Presented poster at Georgia Regional Astronomy Meeting (GRAM).

Skills

Operating Systems	Windows, Linux
Programming	Python, C, Java
Web	HTML, CSS
Software	Eclipse, Jupyter Notebook, VirtualBox, Git, Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Adobe Photoshop, Adobe Illustrator, Adobe InDesign